# PATENT COOPERATION TREATY

# **PCT**

#### **INTERNATIONAL SEARCH REPORT**

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 39734-176842	(Form PCT/ISA/220) as well as, where applicable, item 5 below.								
International application No.	International filing date (da	ny/month/year)	(Earliest) Priority Da	te (day/month/year)					
PCT/US 01/46177	07/12/20	01							
Applicant									
SCHWEITZER CHEMICAL CORPO	RATION USA								
This International Search Report has beer according to Article 18. A copy is being tra			nority and is transmitted	I to the applicant					
This International Search Report consists  It is also accompanied by	of a total of6 a copy of each prior art doc	sheets. ument cited in this	report.						
Basis of the report									
<ul> <li>With regard to the language, the language in which it was filed, unli</li> </ul>			sis of the international a	application in the					
the international search w Authority (Rule 23.1(b)).	as carried out on the basis o	of a translation of t	he international applicat	tion furnished to this					
b. With regard to any <b>nucleotide an</b> was carried out on the basis of the		disclosed in the ir	nternational application,	the international search					
<b></b>	nal application in written for								
<u> </u>									
	this Authority in written form								
	this Authority in computer re			-Parlance to the					
	sequently furnished written s filed has been furnished.	sequence listing a	oes not go beyond the o	disclosure in the					
the statement that the info furnished	rmation recorded in comput	er readable form is	s identical to the written	sequence listing has been					
2. X Certain claims were four	nd unsearchable (See Box	I).							
3. Unity of invention is lack	king (see Box II).								
4. With regard to the title,									
X the text is approved as su	the text is approved as submitted by the applicant.								
the text has been establish	hed by this Authority to read	as follows:							
5. With regard to the abstract,	hanitha al lass than a series as								
	bmitted by the applicant. ned, according to Rule 38.2( date of mailing of this interr								
6. The figure of the drawings to be publi	shed with the abstract is Fig	jure No.	1						
X as suggested by the applie				None of the figures.					
because the applicant faile	ed to suggest a figure.								
because this figure better	characterizes the invention.								

#### INTERNATIONAL SEARCH REPORT

International Application No PCT/US 01/46177

a. classification of subject matter IPC 7 CO7K16/10 GO1N G01N33/569 G01N33/543 A61K39/12 G01N33/577 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) IPC 7 C07K Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) BIOSIS, EMBASE, WPI Data, PAJ, EPO-Internal, SEQUENCE SEARCH C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. X EP 1 006 178 A (NATIONAL SCIENCE COUNCIL) 1 - 127 June 2000 (2000-06-07) 26 - 39the whole document Υ 13 - 25WO 88 07586 A (BIO-RESEARCH LABORATORIES) 13-25 6 October 1988 (1988-10-06) the whole document S. CHI ET AL.: "Characterization of 13 - 25grouper nervous necrosis virus (GNNV)." JOURNAL OF FISH DISEASES, vol. 24, no. 1, January 2001 (2001-01), pages 3-13, XP002229784 GB abstract Further documents are listed in the continuation of box C. Patent family members are listed in annex. ° Special categories of cited documents: \*T\* later document published after the international filing date or priority date and not in conflict with the application but \*A\* document defining the general state of the art which is not considered to be of particular relevance cited to understand the principle or theory underlying the invention \*E\* earlier document but published on or after the international "X" document of particular relevance; the claimed invention filing date cannot be considered novel or cannot be considered to "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention citation or other special reason (as specified) cannot be considered to involve an inventive step when the document is combined with one or more other such docu-\*O\* document referring to an oral disclosure, use, exhibition or ments, such combination being obvious to a person skilled in the art. other means document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 10 February 2003 24/02/2003 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 Nooij, F

### FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-3 (all partially), 4 (completely), 6 (partially), 7 (completely), 9-21 (all partially), 22, 23 (both completely)

Antibody having binding specificity for nervous necrosis virus (NNV), wherein said virus is replicated in an immortal cell line from Epinephelus coioides having an ATCC accession No. PTA-859. Methods for preparing said antibody. Immunoassay for detecting said virus, using said antibody.

2. Claims: 1-3 (all partially), 5 (completely), 6 (partially), 8 (completely), 9-21 (all partially), 24, 25 (both completely)

Antibody having binding specificity for infectious pancreatic necrosis virus (IPNV), wherein said virus is replicated in an immortal cell line from Epinephelus coioides having an ATCC accession No. PTA-859. Methods for preparing said antibody. Immunoassay for detecting said virus, using said antibody.

3. Claims: 26 (partially), 27, 28 (both completely), 31-33 (all partially), 34, 35 (both completely)

Vaccine for immunizing susceptible fish against NNV infection comprising an immunologically effective amount of NNV, wherein said NNV is produced in an immortal cell line from Epinephelus coioides having an ATCC deposit No. PTA-859, and wherein said NNV is modified to become non-infective to said susceptible fish.

4. Claims: 26 (partially), 29, 30 (both completely), 31-33 (all partially), 36-39 (all completely)

Vaccine for immunizing susceptible fish against IPNV infection comprising an immunologically effective amount of IPNV, wherein said IPNV is produced in an immortal cell line from Epinephelus coioides having an ATCC deposit No. PTA-859, and wherein said IPNV is modified to become non-infective to said susceptible fish.

## FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.1

Although claims 33-39 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.

Continuation of Box I.1

Claims Nos.: 6-8,10,12 (all partially)

Claims 6-8, 10 and 12 refer to a method for preparing an antibody comprising injecting an effective amount of virus to an antibody producing animal to stimulate an immune response. Said animal may also comprise a human being. The latter is not admissible under Rule 9.1(i) PCT.

International application No. PCT/US 01/46177

### **INTERNATIONAL SEARCH REPORT**

Box I Observations where certain claims were f und unsearchabl (Continuati n of item 1 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. X Claims Nos.: 6-8,10,12 (all partially) because they relate to subject matter not required to be searched by this Authority, namely:  see FURTHER INFORMATION sheet PCT/ISA/210
Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
see additional sheet
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. X As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest  The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.

### INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/US 01/46177

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
EP 1006178	A	07-06-2000	EP US US US	1006178 A2 2002159993 A3 6436702 B3 2002164787 A3	1 31-10-2002 1 20-08-2002
WO 8807586	Α	06-10-1988	DK AU WO	151087 A 1780188 A 8807586 A	